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Patent Application

Inventor(s)	Arthur Robert Calderbank Ayman Naguib Nambirajan Seshadri	Case Name	Calderbank 19-6-42
Filing Date	4/28/1999	Serial No.	09/300494
Examiner	Chieh M Fan	Group Art Unit	2634
Title	Combined Channel Coding and Space-Block Coding in a Multi-Antenna Arrangement		

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231
SIR:

AMENDMENT

In response to an Office action dated April 10, 2001 please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 1, replace the title paragraph beginning at line 1 with:--

C1
Combined Channel Coding and Space-Time Block Coding in a Multi-Antenna Arrangement --;

Page 1, replace the paragraph beginning at line 14 with:--

- C2
- U.S. Application 09/114,838, filed July 14, 1998, titled "Combined Array Processing and Space-Time Coding," which is based on U.S. Provisional Application No. 60/052,689, filed July 17, 1997.--;

Page 4, replace the paragraph beginning at line 9 with:

C3
Cont.

In the aforementioned 09/114,838 application, an arrangement is disclosed that provides enhanced performance which is realized by employing a perspective that combines array signal processing with channel coding. Specifically, antennas at the transmitter are partitioned into small groups, and individual space-time codes are used to transmit information from each group of antennas. At the receiver, an individual space-time code is decoded by a linear array processing technique that suppresses signals